

AMENDMENT TO THE DRAWINGS

The attached sheets of drawings replace the original sheets including FIGS. 4 and 5. In the amendment, these figures have been labeled with a “Prior Art” legend.

Attachment: Replacement Sheets

REMARKS**Status of Claims**

Claims 1-11 are pending, of which claim 1 is independent. Applicant notes with appreciation the indication of allowable subject matter of claims 3-11.

Objection to the Drawings

The Examiner objected to the drawings because FIG. 4 should be designated as prior art. Applicant submits that the amendments made to the drawings overcome this objection.

Rejection under 35 U.S.C. § 103

Claims 1-2 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Moriai et al, (US 2005/0070237) in view of Hoda et al. (US 2004/0135929). This rejection is traversed for at least the following reasons.

Applicant respectfully submits that none of the cited references discloses or suggests that a specific frequency component elimination filter eliminates *a specific frequency component* from the signal output from the complex phase rotator and outputting a resultant signal, as recited by claim 1. In rejecting claim 1, the Examiner concedes that Moriai fails to disclose the claimed specific frequency component elimination filter. The Examiner then relies on Hoda asserting that an NTSC elimination filter of Hoda corresponds to the claimed specific frequency component elimination filter. However, Applicant respectfully submit that Hoda's NTSC elimination filter 52 eliminates an NTSC signal from an A/D converted signal, but does not eliminate *a specific frequency component* from the signal output from the complex phase rotator via a specific frequency component elimination filter.

As such, it is clear that, at a minimum, the cited references fail to disclose the specific frequency component elimination filter of claim 1. Further, it would not have been obvious to add this feature to the combination of the cited references. Accordingly, claim 1 and all claims dependent thereon are patentable over the cited references.

Further, Applicant submits that none of the cited references discloses or suggests that “*the waveform equalizer receives a complex signal from the specific frequency component elimination filter and **outputs a real signal** as the resultant signal obtained from the waveform distortion correction,*” as recited by claim 2. Applicant submits that Moriai fails to disclose that the alleged equalizer 42 receives a real signal. It is clear that the input to the equalizer 42 of Moriai, which is output from the phase rotation unit 40, is a complex signal because the phase rotation unit 40 of Moriai rotates the phase of an input signal. Moreover, paragraph [0063] of Moriai discloses that “[t]he equalizer 42 may output the input signal intact until tap coefficients of the equalizer 42 are set,” which also indicates that the input signal to the equalizer 42 is a complex signal as well as the output signal of the equalizer 42. As such, it is clear that Moriai fails to disclose that the waveform equalizer outputs a real signal as recited by claim 2. It is also clear that Hoda fails to cure the deficiency of Moriai. Accordingly, claim 2 is patentable over the cited references for its own merit in addition to the dependency upon claim 1.

Thus, Applicant respectfully requests that the Examiner withdraw the rejections of claims 1 and 2 under 35 U.S.C. § 103(a).

CONCLUSION

Having fully responded to all matters raised in the Office Action, Applicant submits that all claims are in condition for allowance, an indication for which is respectfully solicited. If there are any outstanding issues that might be resolved by an interview or an Examiner's amendment, the Examiner is requested to call Applicant's attorney at the telephone number shown below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. § 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,


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